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Gym Management System

# Feature Checklist

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| --- | --- | --- |
| **Requirement** | **Present in Your Project?** | **Notes** |
| **1. Header (Navigation Bar)** | ✅ Yes | All HTML pages have a Bootstrap navbar. |
| **2. Footer (Copyright, social links, feedback, etc.)** | ✅ Yes | Footer present in all main pages. |
| **3. Custom CSS (colors, fonts, margins, padding)** | ✅ Yes | home.css with custom styles, transitions, hover effects, etc. |
| **4. Impressive design, transitions, hover effects, scrollbars** | ✅ Yes | CSS and Bootstrap used for effects, transitions, and responsive design. |
| **5. Bootstrap components (Grid, Navbar, Buttons, Cards, etc.)** | ✅ Yes | Bootstrap used throughout, downloaded locally. |
| **6. Responsive design** | ✅ Yes | CSS and Bootstrap media queries, responsive layout. |
| **7. Feedback, reviews form** | ✅ Yes | feedback.html, review-form.html with forms and backend storage. |
| **8. Bootstrap JS components (modals, tooltips, carousels)** | ✅ Yes | Modals in membership plans, Bootstrap JS included. |
| **9. Smooth scrolling for navbar links** | ✅ Yes | scroll-behavior: smooth; in CSS. |
| **10. Form validation** | ✅ Yes | JS validation for empty fields, required attributes. |
| **11. Notification popup** | ✅ Yes | Notification popup in home.css and JS. |
| **12. Login and signup form** | ✅ Yes | login.html, signup.html, backend authentication. |
| **13. Features hidden without login** | ✅ Yes | JS toggles feature visibility based on login state. |
| **14. Chat box for help** | ✅ Yes | Chatbot in UI, with JS logic. |
| **15. JavaScript DOM manipulation** | ✅ Yes | Dynamic content updates, feature toggling, chat, etc. |
| **16. jQuery effects (animations, toggling, etc.)** | ✅ Yes | jQuery used for DOM manipulation and effects. |
| **17. AJAX requests to load content dynamically** | ✅ Yes | fetch and jQuery AJAX used for forms and data. |
| **18. Fetch and display data using JSON files** | ✅ Yes | Membership plans, trainers, testimonials, etc. loaded from JSON. |
| **19. Use MongoDB to add, get, delete, update data** | ✅ Yes | All forms (feedback, review, contact, user) use MongoDB via Express routes. |
| **20. MVC structure (models, routes/controllers, views)** | ✅ Yes | models/, routes/, and HTML views are separated. |
| **21. Only external CSS/JS, relative paths, downloaded Bootstrap** | ✅ Yes | All CSS/JS is external, Bootstrap is local, relative paths used. |

# Project Structure Review

## Backend:

* **server.js**
  + Contains the core **Express** server setup, enabling **CORS** and **MongoDB** connection.
  + Utilizes **bodyParser** for JSON request parsing.
  + All routes are registered in the correct order for proper routing functionality.
* **models/**
  + **user.js**: Defines the schema and model for user data (name, email, password).
  + **feedback.js**: Defines the schema and model for storing feedback data.
  + **review.js**: Defines the schema and model for storing review data.
  + **contact.js**: Defines the schema and model for storing contact form submissions.
* **routes/**
  + **userRoutes.js**: Handles routes for user-related operations (signup, login, etc.).
  + **feedbackRoutes.js**: Manages routes for feedback-related actions.
  + **reviewRoutes.js**: Manages routes for handling review form submissions.
  + **contactRoutes.js**: Manages routes for processing contact form submissions.

## Frontend:

* **HTML Files for Each Page**
  + **home.html**: Main landing page of the application.
  + **login.html**: User login page for authentication.
  + **signup.html**: User registration page to create a new account.
  + **feedback.html**: Page for users to submit feedback.
  + **review.html**: Page for submitting and displaying reviews.
  + **contact.html**: Page for users to contact the administration.
  + **membership-plans.html**: Page displaying different membership plans.
* **script.js**
  + Contains **all dynamic logic** such as DOM manipulation, feature toggling, and AJAX requests.
  + Implements **jQuery** effects for animations and user interactions.
  + Manages the **chatbox** functionality and dynamic content updates.
* **home.css**
  + Custom styles for the website, ensuring **responsive design**, **transitions**, and **hover effects**.
  + Ensures the application looks good across all screen sizes, using **media queries** for responsiveness.
* **Bootstrap and jQuery Included Locally**
  + **Bootstrap** is used for layout and UI components like grids, navbars, and buttons.
  + **jQuery** is included for DOM manipulation, handling events, and AJAX requests.
* **JSON Files for Static Data**
  + **membership.json**: Static data for membership plans.
  + **trainers.json**: Static data about trainers.
  + **testimonials.json**: Static data for testimonials.
  + **feedback.json**: Static data for feedback entries.
  + **review.json**: Static data for reviews.
* **Images in img/ Folder**
  + Contains images used across the website, such as icons, background images, and other visuals.